Figure 1

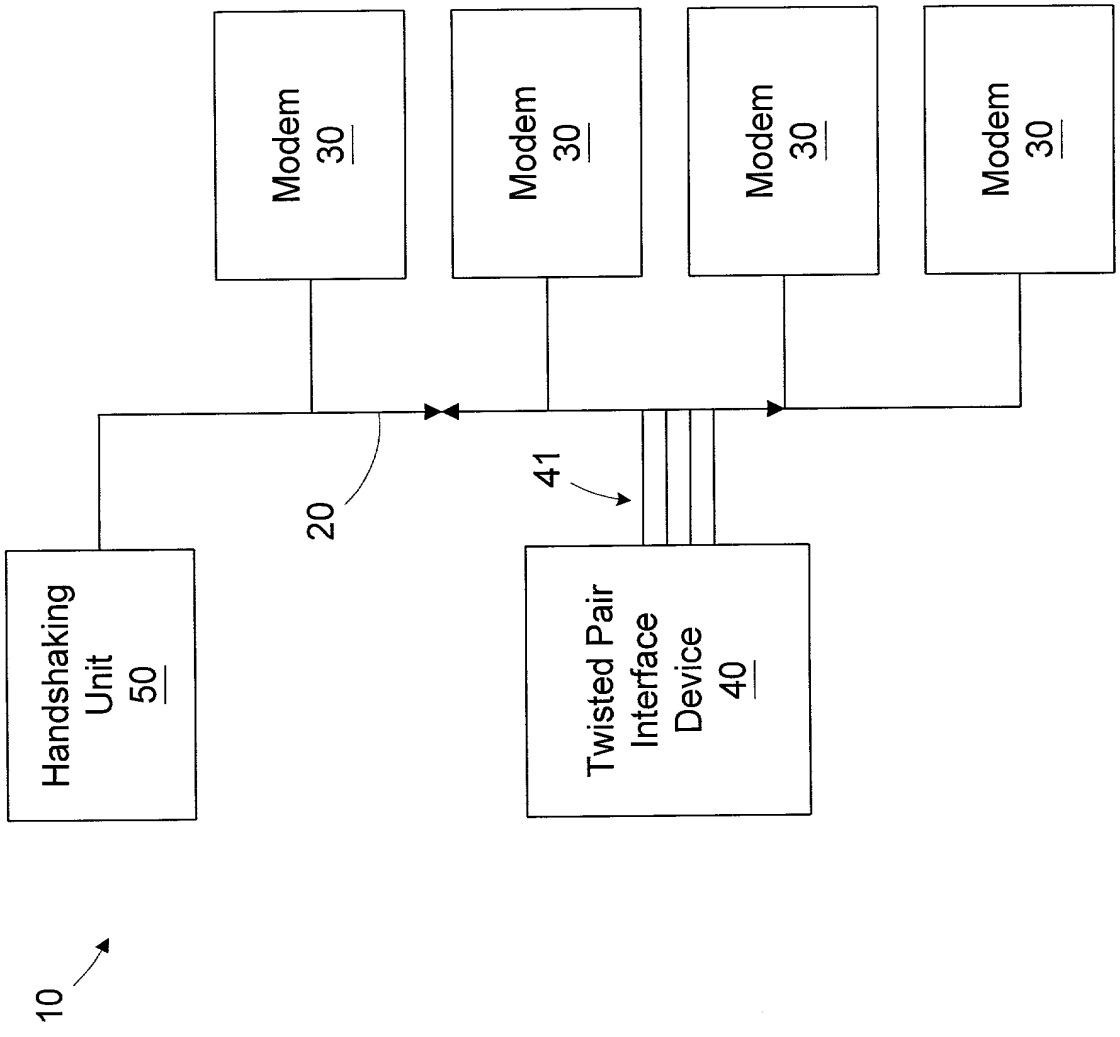
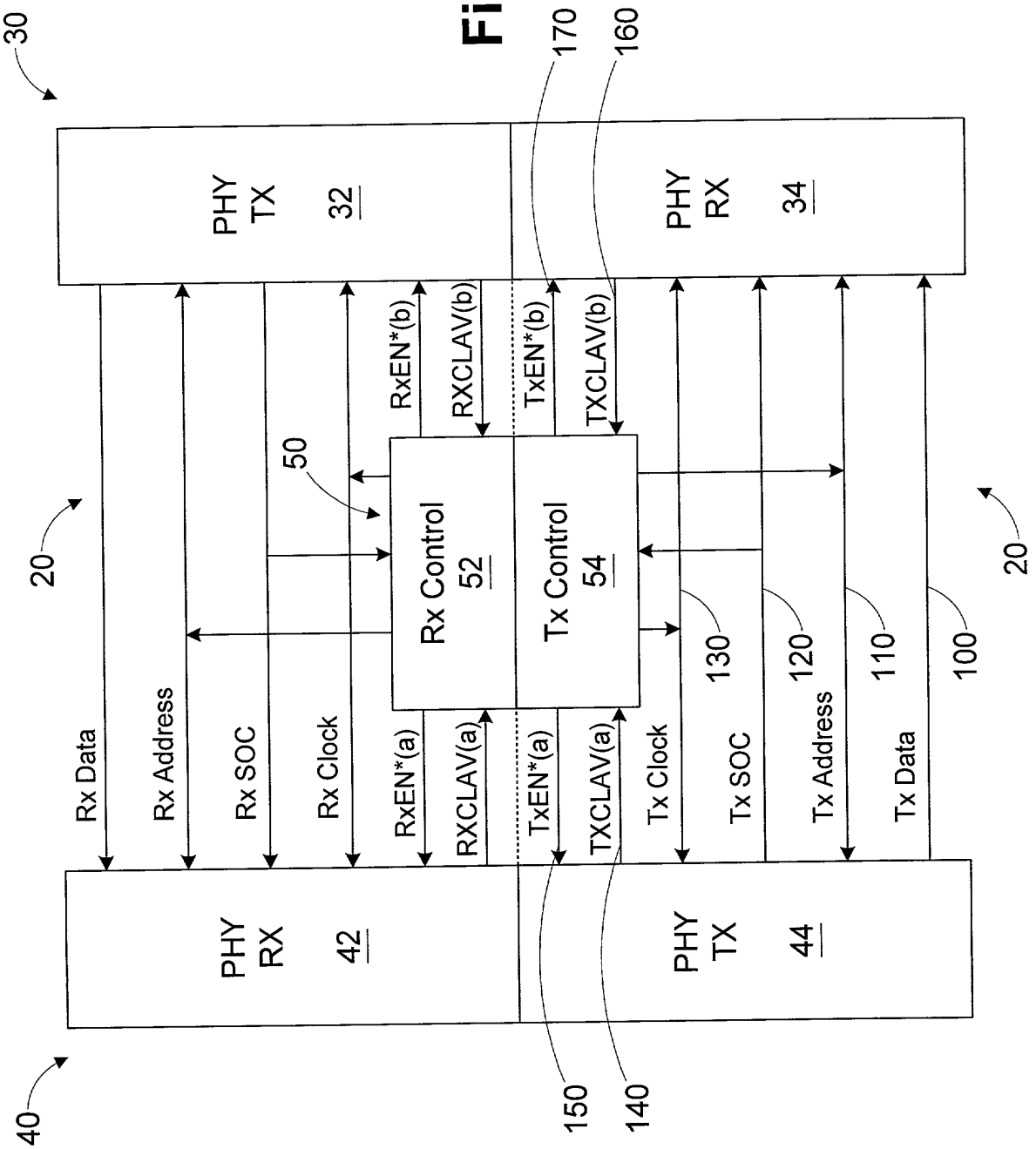
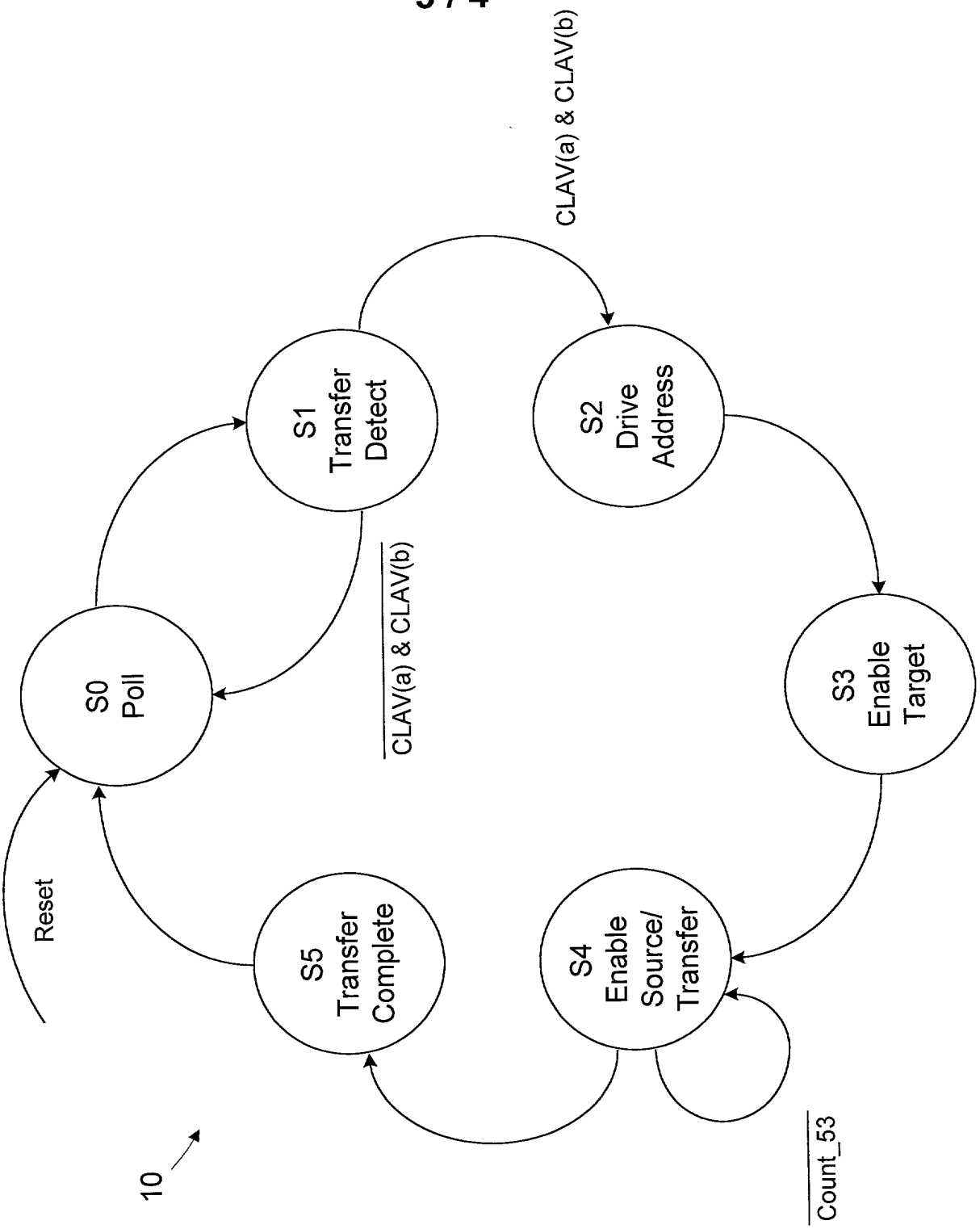

Modem 30
Modem 30
Modem 30
Modem 30
20
41
Handshaking Unit 50
Twisted Pair Interface Device 40
10

Figure 2


30
PHY TX 32
PHY RX 34
170
160
RxEN*(b)
RXCLAV(b)
TxEN*(b)
TXCLAV(b)
50
Rx Control 52
Tx Control 54
20
20
Rx Data
Rx Address
Rx SOC
Rx Clock
RxEN*(a)
RXCLAV(a)
TxEN*(a)
TXCLAV(a)
Tx Clock
Tx SOC
Tx Address
Tx Data
130
120
110
100
PHY RX 42
PHY TX 44
40
150
140


S0
Poll
S1
Transfer
Detect
S2
Drive
Address
S3
Enable
Target
S4
Enable
Source/
Transfer
S5
Transfer
Complete
Reset
CLAV(a) & CLAV(b)
CLAV(a) & CLAV(b)
Count_53
10

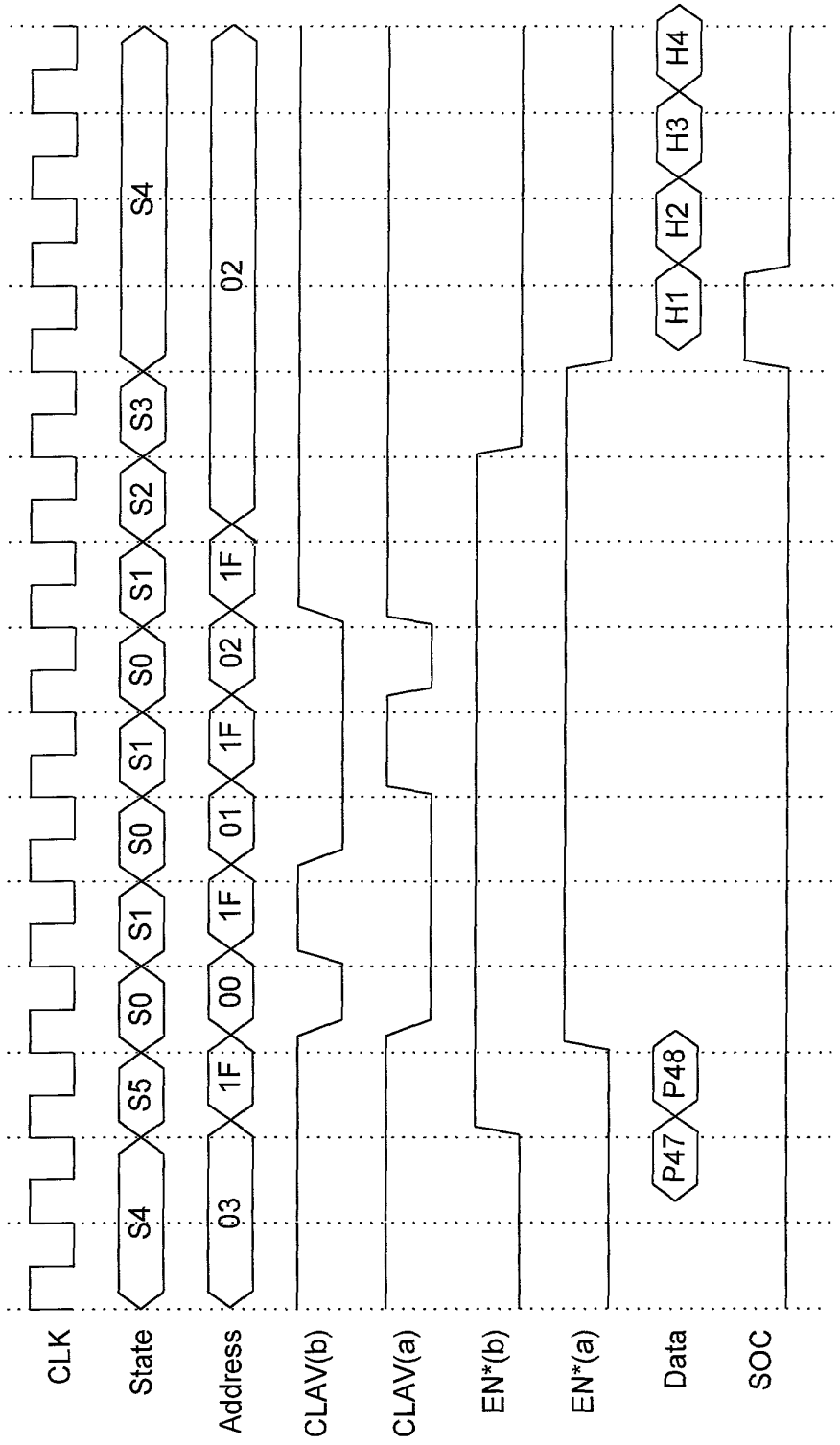

1
2
3
4
5
6
7
8
9
10
11
12
13
14
CLK
State
Address
CLAV(b)
CLAV(a)
EN*(b)
EN*(a)
Data
SOC
S4
S5
S0
S1
S0
S1
S0
S1
S2
S3
S4
03
1F
00
1F
01
1F
02
1F
02
P47
P48
H1
H2
H3
H4

Figure 4